

## CLAIMS

What is claimed?

1. Diagnostic and prognostic assay kits for the measurement of JAM-1, 2, and 3 in body fluids including plasma, sera, urine, cell media, and tissue extracts. The kits can be used for detecting the presence of human JAM-1, 2 or 3 antigens comprising of an antibody or fragments, which is labeled for diagnostics and therapeutics.
2. The method of therapeutics wherein JAM-1, 2 or 3 antibodies and fragments may be used unlabelled or labeled in a variety of applications, such as in therapy for treating angiogenesis- and inflammation-mediated conditions such as vascular, ocular disorders, cardiovascular, cancer, rheumatoid arthritis, thrombosis, sickle cell disease.
3. The method of diagnosis wherein the label is selected from the group consisting of: (a) an enzyme label; (b) a radioisotope; (c) a fluorescent label; and (d) biotin.
4. The method of claim 3 wherein the label is a radioisotope selected from the group consisting a) I-125; (b) I-121; (c) I-131; (d) IN-111; and (e) Technetium (TC) 99 m.
5. A diagnostic kit of Claim 3 wherein all reagents are together or individually to be used with 24, 48, 96 or any larger micro-titer well plates.
6. A labeled humanized antibody or fragment of claim 1, wherein said antibody or fragment is labeled with a label selected from the group consisting of a radionuclide, a fluor, an enzyme label, an enzyme substrate, enzyme cofactor, enzyme inhibitor and a hapten.
- 5.

7. A kit of Claim 1 and 3 for detecting the presence of human JAM-1, 2 or 3 antigen, said kit comprising a humanized antibody or fragment wherein said antibody or fragment specifically binds to human JAM-1, 2 or 3.
8. The kit of claim 7, further comprising a second antibody reactive with said humanized antibody or fragment.
9. The kit of claim 7, wherein said second antibody is labeled with a label selected from the group consisting of a radionuclide, a fluor, an enzyme label, an enzyme substrate, enzyme cofactor, enzyme inhibitor and a hapten.
10. The method of claim 1-9 wherein the antibody or portion thereof is a monoclonal antibody.
11. The method of claim 1-9 wherein the antibody or portion thereof is a polyclonal antibody.
12. The method of claim 1-9 wherein the antibody or portion thereof is a Fab fragment.
13. The kit of claim 1 and 3, further comprising a second antibody reactive with said humanized antibody or fragment wherein said second antibody is labeled.
14. The method of claim 1 and 3 to be used in the diagnosis of various cardiovascular disorders and in monitoring various therapies for cardiovascular diseases.
15. The method of claim 1-2 to be used in the diagnosis of various cardiovascular disorders and in monitoring various therapies for cardiovascular diseases.
16. The method of claim 1 and 3 to be used in the diagnosis of various cardiovascular disorders and in monitoring various therapies for cardiovascular diseases.
17. The method of claim 1 and 3 to be used in the diagnosis of various cardiovascular disorders and in monitoring various therapies for cardiovascular diseases.

18. The method of claim 1 and 3 to be used in the diagnosis of unstable angina, myocardial infarction and in monitoring various therapies for those diseases.
19. The method of claim 1 and 3 to be used in the diagnosis of stroke and in monitoring various therapies for stroke.
20. The method of claim 1 and 3 to be used in the diagnosis of various peripheral vascular disorders and in monitoring various therapies.
21. The method of claim 1 and 3 to be used in the diagnosis of various vascular disorders and in monitoring various therapies for vascular diseases.
22. The method of claim 1 and 3 to be used in the diagnosis of various acute / chronic inflammatory disorders and in monitoring various therapies for inflammatory diseases.
23. The method of claim 1 and 3 to be used in the diagnosis of various angiogenesis-mediated disorders and in monitoring various therapies for angiogenesis-mediated diseases.
24. The method of claim 1 wherein the biological sample is serum, plasma, urine, synovial fluid or spinal fluid.